

IN THE CLAIMS:

Please **CANCEL** claims 15-28 without prejudice or disclaimer.

Please **ADD** claims 43-56 as follows.

1. (Previously Presented) A method, comprising:

starting an application level communication connection setup procedure between a mobile node and a correspondent node via a communication subsystem infrastructure of a packet based communication network by transmitting and receiving application level signaling messages between the correspondent node and the mobile node;

transmitting, during the application level communication connection setup procedure, a trigger signal from an application layer to a network layer in the mobile node wherein the trigger signal comprises the address of the correspondent node; and

performing, in response to the trigger signal, a network level route optimization procedure during the application level communication connection setup procedure.
2. (Original) The method according to claim 1, wherein the packet based communication network comprises wireless communication network parts.
3. (Previously Presented) The method according to claim 1, wherein the network level is based on an internet protocol based transport protocol.

4. (Previously Presented) The method according to claim 3, wherein the address of the correspondent node is an internet protocol address.

5. (Previously Presented) The method according to claim 3, wherein the IP based transport protocol uses mobile internet protocol version 6.

6. (Previously Presented) The method according to claim 5, wherein the communication subsystem infrastructure further includes a home agent.

7. (Original) The method according to claim 1, wherein the application level communication connection setup procedure is executed by using the session initiation protocol wherein the address of the correspondent node is provided to the mobile node in a session description protocol descriptor.

8. (Original) The method according to claim 1, wherein the network level route optimization procedure comprises a binding update procedure in which the care-of-address of the mobile node is transmitted to the correspondent node.

9. (Previously Presented) The method according to claim 1, wherein performing the network level route optimization procedure comprises initializing a network level route optimization on the mobile node side.

10. (Previously Presented) The method according to claim 9, wherein performing the network level route optimization procedure comprises initializing a network level route optimization on the correspondent node side when an network level route optimization signaling from the mobile node is received.

11. (Previously Presented) The method according to claim 1, wherein performing the network level route optimization procedure is completed before the application level communication connection setup procedure is completed.

12. (Previously Presented) The method according to claim 1, wherein transmitting the trigger signal is performed via an interface provided between the application layer and a network level module in the network layer of the mobile node.

13. (Original) The method according to claim 12, wherein the interface is implemented by an application programming interface.

14. (Previously Presented) The method according to claim 12, further comprising transmitting an acknowledgment from the network level module to the application layer after the trigger signal comprising the address of the correspondent node is received.

15-28. (Cancelled)

29. (Previously Presented) An apparatus, comprising:

a connector configured to perform an application level communication connection setup procedure between the network node and a correspondent node via a communication subsystem infrastructure of a packet based communication network and to transmit and receive application level signaling messages between the correspondent node and the network node;

a transmitter configured to produce and transmit, during the application level communication connection setup procedure, a trigger signal from an application layer to a network layer in the network node wherein the trigger signal comprises the address of the correspondent node; and

an optimizer configured to perform, in response to the trigger signal, a network level route optimization procedure during the application level communication connection setup procedure.

30. (Previously Presented) The apparatus according to claim 29, wherein the packet based communication network comprises wireless communication network parts.

31. (Previously Presented) The apparatus according to claim 29, wherein the network level is based on an internet protocol based transport protocol.

32. (Previously Presented) The apparatus according to claim 31, wherein the address of the correspondent node is an internet protocol address.

33. (Previously Presented) The apparatus according to claim 31, wherein the internet protocol based transport protocol uses mobile internet protocol version 6.

34. (Previously Presented) The apparatus according to claim 33, communication subsystem infrastructure further includes a home agent.

35. (Previously Presented) The apparatus according to claim 29, wherein the apparatus is configured to perform the application level communication connection setup procedure and to use the session initiation protocol wherein address of the correspondent node is provided in a session description protocol descriptor.

36. (Previously Presented) The apparatus according to claim 29, wherein the optimizer is configured to perform the network level route optimization procedure and to execute a binding update procedure in which the care-of-address of the network node is transmitted to the correspondent node.

37. (Previously Presented) The apparatus according to claim 29, wherein the optimizer is configured to perform the network level route optimization procedure and to initialize a network level route optimization on the network node side.

38. (Previously Presented) The apparatus according to claim 29, wherein the optimizer is further configured to complete the network level route optimization procedure before the application level communication connection setup procedure is completed.

39. (Previously Presented) The apparatus according to claim 29, wherein the apparatus further comprises a transmitter configured to transmit and produce the trigger signal and

an interface, wherein the interface is provided between the application layer and network level module in the network layer of the network node.

40. (Previously Presented) The apparatus according to claim 39, wherein the interface is implemented by an application programming interface.

41. (Previously Presented) The apparatus according to claim 39, wherein the apparatus further comprises a transmitter configured to produce and transmit an

acknowledgment from the network level module to the application layer after the trigger signal, comprising the address of the correspondent node is received.

42. (Previously Presented) An apparatus, comprising:

means for performing an application level communication connection setup procedure between a network node and a correspondent node via a communication subsystem infrastructure of the packet based communication network by transmitting and receiving application level signaling messages between the correspondent node and the network node;

means for producing and transmitting, during the application level communication connection setup procedure, a trigger signal from an application layer to a network layer in the network node wherein the trigger signal comprises the address of the correspondent node; and

means for performing, in response to the trigger signal, a network level route optimization procedure during the application level communication connection setup procedure.

43. (New) A computer program product embodied on a computer readable storage medium, the computer program product being configured to control a processor to perform a method, the method comprising

starting an application level communication connection setup procedure between a mobile node and a correspondent node via a communication subsystem infrastructure of a packet based communication network by transmitting and receiving application level signaling messages between the correspondent node and the mobile node;

transmitting, during the application level communication connection setup procedure, a trigger signal from an application layer to a network layer in the mobile node wherein the trigger signal comprises the address of the correspondent node; and

performing, in response to the trigger signal, a network level route optimization procedure during the application level communication connection setup procedure.

44. (New) The computer program product according to claim 43, wherein the packet based communication network comprises wireless communication network parts.

45. (New) The computer program product according to claim 43, wherein the network level is based on an internet protocol based transport protocol.

46. (New) The computer program product according to claim 45, wherein the address of the correspondent node is an internet protocol address.

47. (New) The computer program product according to claim 45, wherein the Internet protocol based transport protocol uses mobile internet protocol version 6.

48. (New) The computer program product according to claim 47, wherein the communication subsystem infrastructure further includes a home agent.

49. (New) The computer program product according to claim 43, wherein the application level communication connection setup procedure is executed by using the session initiation protocol wherein the address of the correspondent node is provided to the mobile node in a session description protocol descriptor.

50. (New) The computer program product according to claim 43, wherein the network level route optimization procedure comprises a binding update procedure in which the care-of-address of the mobile node is transmitted to the correspondent node.

51. (New) The computer program product according to claim 43, wherein performing the network level route optimization procedure comprises initializing a network level route optimization on the mobile node side.

52. (New) The computer program product according to claim 51, wherein performing the network level route optimization procedure comprises initializing a network level route optimization on the correspondent node side when an network level route optimization signaling from the mobile node is received.

53. (New) The computer program product according to claim 43, wherein performing the network level route optimization procedure is completed before the application level communication connection setup procedure is completed.

54. (New) The computer program product according to claim 43, wherein transmitting the trigger signal is performed via an interface provided between the application layer and a network level module in the network layer of the mobile node.

55. (New) The computer program product according to claim 54, wherein the interface is implemented by an application programming interface.

56. (New) The computer program product according to claim 54, the method further comprising:

transmitting an acknowledgment from the network level module to the application layer after the trigger signal comprising the address of the correspondent node is received.